

**Amendments to the Specification:**

Please replace paragraph [0024] of the Specification with the following amended paragraph:

[0024] FIG. 1A depicts an exemplary first embodiment of a tunable lens array [[10]] of the present invention, comprising five doubly concave two-dimensional (2D) lenses 20 arranged along an line perpendicular to the optical axes of the lenses. In the embodiment of FIG. 1A, each of the individual lenses is substantially identical. Each lens 20 consists of two curved refracting surfaces ~~20a and 20b~~ which are, in the embodiment depicted, formed in an optically transparent material such as silica, with a thermo optical (TO) polymer 30 filling the space between the curved surfaces. As used in the present application, the term optically transparent is relative to the specific wavelengths used in the system. For example, typical wavelengths used in an optical communication network are 1550 or 1320 nm. As shown, the refracting surfaces ~~20a and 20b~~ of each lens 20 in an array are constructed in opposing spaced apart relationship or a so called double concave gap. A double convex gap is also possible but in this case the RI of the polymer material filling the gap should be higher than the RI of the lens base.